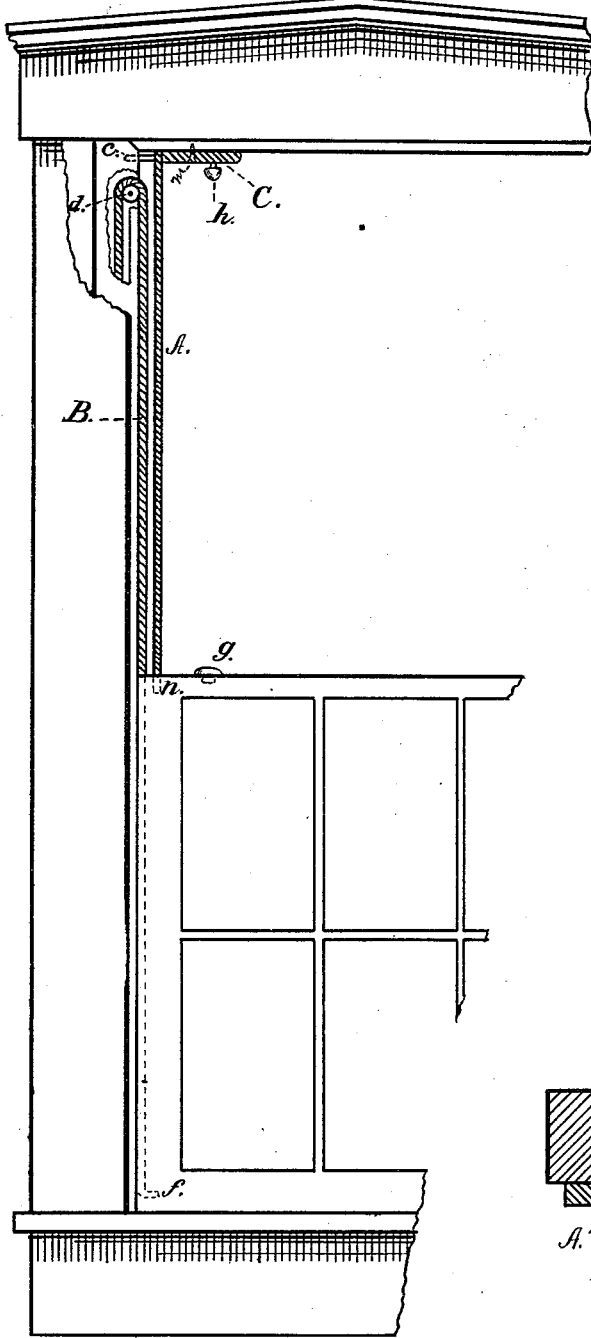


J. F. EBERT.  
Window-Frames.

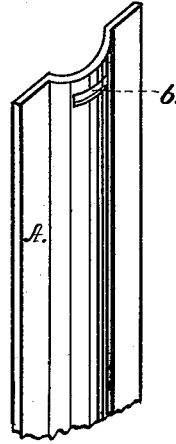
No. 166,690.

Patented Aug. 17, 1875

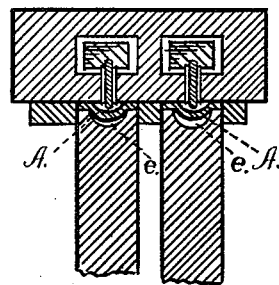
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses;  
*H. S. Kittredge*  
*P. Odlin*

Inventor;  
*Jacob F. Ebert*  
by his Atty  
*Chas. M. Beck.*

# UNITED STATES PATENT OFFICE.

JACOB F. EBERT, OF DAYTON, OHIO.

## IMPROVEMENT IN WINDOW-FRAMES.

Specification forming part of Letters Patent No. **166,690**, dated August 17, 1875; application filed January 20, 1875.

*To all whom it may concern:*

Be it known that I, JACOB F. EBERT, of Dayton, State of Ohio, have invented a new and useful Improvement in Attachments for Window-Frames; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a part view of a window in elevation, with the strip removed to show a section of my attachment. Fig. 2 represents a part of one of my improved metallic strips, shown in perspective. Fig. 3 is a horizontal section of a window-frame and part of the sashes provided with my attachment.

The object of my invention is to form an attachment to the side of an ordinary window-frame, which shall serve the purposes of reducing the friction in raising the sash, and the general ornamentation of the window by hiding the cords which sustain the sashes; and it consists in the combination, with said attachment, of a fastening-plate provided with an ornamental drop, as hereafter described.

A metallic strip A, preferably of the shape shown in Fig. 2, is fastened in the grooves in which the sashes are confined. This strip, concave on its inner surface, covers the cord without contact with it, and projects just below the top of the sash, as seen at *n*, Fig. 1. A plate, C, of the same width as the metallic strip A, and provided with an ornamental drop or stud, *h*, may be used as a means of retaining it in position, upon the frame, in the following manner: A longitudinal slot, *b*, Fig. 2, is

cut near the top edge of the plate, and a projecting stud or pin from the plate C is passed through it into the frame, as seen at *c*, Fig. 1, and a screw, *m*, is employed to fasten the plate C to the window-frame. Thus the strip A is held suspended and securely fastened at the top. As its edge projects below the top of the sash, as seen at *n*, Fig. 1, it is prevented from being thrown out of adjustment. The window-sash has its two sliding edges grooved, as seen at *e*, Fig. 3, so that it only touches the metal strip A at two points, thereby reducing the friction, and allowing the convex portion of the plate, which may be embossed or ornamented in any style, to remain brightly polished. The cords B pass over pulleys *d* in the ordinary manner; but they are attached to the bottom of the sash, as seen at *f*, Fig. 1, so that in raising the lower sash the plate A will meet with no obstruction. A piece of rubber, *g*, is fastened to the top of the lower sash, which will strike the stud *h* when the sash is thrown up, and prevent any damage to the sash, or any unpleasant jar.

Having fully described my invention, I claim and desire to secure by Letters Patent—

In a window-frame, the combination of the strip A, plate C, drop *h*, rubber *g*, and grooved sashes, substantially as described, and for the purpose specified.

Witness my hand this 16th day of January, A. D. 1875.

JACOB F. EBERT.

Witnesses:

ALBERT KERN,  
P. ODLIN.